

RAW SEQUENCE LISTING

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Application Serial Number: 10/521, 010
Source: PCT
Date Processed by STIC: 05/23/2006

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PCT

RAW SEQUENCE LISTING

DATE: 05/23/2006

PATENT APPLICATION: US/10/521,010

TIME: 14:16:29

Input Set : N:\KD\pto.kd.txt

Output Set: N:\CRF4\05232006\J521010.raw

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4 <110> APPLICANT: CSL Ltd and The Council of the Queensland Institute of
5     Medical Research
6     Webb, Elizabeth Ann
7     Schoofs, Peter
9 <120> TITLE OF INVENTION: Expression of hydrophobic proteins
11 <130> FILE REFERENCE: 2349.0010000/JUK/WBC
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/521,010
C--> 13 <141> CURRENT FILING DATE: 2005-01-12
13 <150> PRIOR APPLICATION NUMBER: AU2002950183
14 <151> PRIOR FILING DATE: 2002-07-12
16 <160> NUMBER OF SEQ ID NOS: 102
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 233
22 <212> TYPE: PRT
23 <213> ORGANISM: epstein-barr virus (EBV)
25 <400> SEQUENCE: 1
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28 1             5             10             15
30 Ala Ile His Arg Cys Gln Ala Ile Arg Lys Lys Arg Arg Ile Tyr Asp
31             20             25             30
33 Leu Ile Glu Leu Val Gln Pro Pro Gln Leu Thr Leu Gln Val Gly Leu
34             35             40             45
36 Cys Thr Leu Val Ala Met Leu Arg Leu Arg Ala Glu Ala Gln Val Lys
37             50             55             60
39 Ile Glu Asp Pro Pro Phe Asn Ser Leu Tyr Leu Leu Glu Met Leu Trp
40 65             70             75             80
42 Arg Leu Gly Gln Gly Gly Ser Pro Thr Ala Met Ala Val Leu Leu His
43             85             90             95
45 Glu Glu Ser Met Ile Ala Leu Tyr Leu Gln Gln Asn Trp Trp Thr Leu
46             100            105            110
48 Arg Ala Lys Phe Lys Gln Leu Leu Ser Ser Cys Ser Ser Cys Pro Leu
49             115            120            125
51 Ser Lys Ile Thr Tyr Gly Pro Val Phe Met Cys Leu Gln Ala Lys Trp
52             130            135            140
54 Arg Leu Gln Thr Leu Arg Pro Pro Ile Phe Ile Arg Arg Leu Val Ser
55 145            150            155            160
57 Phe Ile Glu Phe Val Gly Trp Tyr Pro Leu His Glu Gln His Gly Met
58             165            170            175
60 Val Glu Ile Thr Pro Tyr Lys Pro Thr Trp Cys Leu Gly Gly Leu Leu
61             180            185            190
63 Thr Met Val Glu Glu Asn Leu Leu Asp Phe Val Arg Phe Thr Tyr Ser
64             195            200            205

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66 Ala Gly Ile Val Gln Ile Leu Leu Asp Phe Val Arg Phe Met Gly Val
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69 Glu Gly Gly Val Gly Trp Arg His Trp
70 225                      230
73 <210> SEQ ID NO: 2
74 <211> LENGTH: 233
75 <212> TYPE: PRT
76 <213> ORGANISM: epstein-barr virus (EBV)
78 <400> SEQUENCE: 2
80 Phe Leu Arg Gly Arg Ala Tyr Gly Leu Pro Tyr Leu Phe Trp Leu Ala
81 1      5                      10                      15
83 Ala Ile His Arg Cys Gln Ala Ile Arg Lys Lys Arg Arg Ile Tyr Asp
84      20                      25                      30
86 Leu Ile Glu Leu Gly Leu Cys Thr Leu Val Ala Met Leu Arg Leu Arg
87      35                      40                      45
89 Ala Glu Ala Gln Val Lys Ile Glu Asp Pro Pro Phe Asn Ser Leu Thr
90      50                      55                      60
92 Tyr Ser Ala Gly Ile Val Gln Ile Leu Leu Asp Phe Val Arg Phe Met
93 65      70                      75                      80
95 Gly Val Glu Gly Gly Val Gly Trp Arg His Trp Ile Ala Leu Tyr Leu
96      85                      90                      95
98 Gln Gln Asn Trp Trp Thr Leu Arg Ala Lys Phe Lys Gln Leu Leu Ser
99      100                     105                     110
101 Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Thr Tyr Gly Pro Val Phe
102      115                     120                     125
104 Met Cys Leu Gln Ala Lys Trp Arg Leu Gln Thr Leu Arg Pro Pro Ile
105      130                     135                     140
107 Phe Ile Arg Arg Leu Val Ser Phe Ile Glu Phe Val Gly Trp Tyr Pro
108 145      150                     155                     160
110 Leu His Glu Gln His Gly Met Val Glu Ile Thr Pro Tyr Lys Pro Thr
111      165                     170                     175
113 Trp Cys Leu Gly Gly Leu Leu Thr Met Val Glu Glu Asn Leu Leu Asp
114      180                     185                     190
116 Phe Val Arg Phe Tyr Leu Leu Glu Met Leu Trp Arg Leu Gly Gln Gly
117      195                     200                     205
119 Gly Ser Pro Thr Ala Met Ala Val Leu Leu His Glu Glu Ser Met Val
120      210                     215                     220
122 Gln Pro Pro Gln Leu Thr Leu Gln Val
123 225                      230
126 <210> SEQ ID NO: 3
127 <211> LENGTH: 181
128 <212> TYPE: PRT
129 <213> ORGANISM: epstein-barr virus (EBV)
131 <400> SEQUENCE: 3
133 Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile His Arg Cys Gln Ala
134 1      5                      10                      15
136 Ile Arg Lys Lys Cys Leu Gly Gly Leu Leu Thr Met Val Leu Thr Ala
137      20                      25                      30
139 Gly Phe Leu Ile Phe Leu Arg Leu Arg Ala Glu Ala Gln Val Lys Ile

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140          35          40          45
142 Glu Asp Pro Pro Phe Asn Ser Leu Leu Leu Ser Ala Trp Ile Leu Thr
143          50          55          60
145 Ala Arg Arg Arg Trp Arg Arg Leu Thr Val Pro Tyr Leu Phe Trp Leu
146 65          70          75          80
148 Ala Ala Ile Tyr Leu Leu Glu Met Leu Trp Arg Leu Gly Gln Gly Gly
149          85          90          95
151 Ser Pro Thr Ala Met Val Met Ser Asn Thr Leu Leu Ser Ala Trp Ala
152          100          105          110
154 Leu Leu Val Leu Tyr Ser Phe Ala Arg Ala Lys Phe Lys Gln Leu Leu
155          115          120          125
157 Ile Ala Leu Tyr Leu Gln Gln Asn Trp Thr Tyr Gly Pro Val Phe Met
158          130          135          140
160 Cys Leu Gln Ala Lys Trp Arg Leu Gln Thr Leu Tyr Leu Gln Gln Asn
161 145          150          155          160
163 Trp Trp Thr Leu Tyr Pro Leu His Glu Gln His Gly Met Cys Pro Leu
164          165          170          175
166 Ser Lys Ile Leu Leu
167          180
169 <210> SEQ ID NO: 4
170 <211> LENGTH: 240
171 <212> TYPE: PRT
172 <213> ORGANISM: Human immunodeficiency virus
174 <400> SEQUENCE: 4
176 Ile Pro Ile Val Ala Ile Val Ala Leu Val Arg Leu Arg Pro Gly Gly
177 1          5          10          15
179 Lys Lys Lys Ile Leu Lys Glu Pro Val His Gly Val Pro Leu Val Lys
180          20          25          30
182 Leu Trp Tyr Gln Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys Leu Lys
183          35          40          45
185 Tyr Lys Leu Lys His Ile Val Trp Thr Trp Glu Thr Trp Thr Thr Glu
186          50          55          60
188 Tyr Trp Glu Ile Lys Asp Thr Lys Glu Ala Leu Lys Arg Trp Ile Ile
189 65          70          75          80
191 Leu Gly Leu Asn Lys Lys Leu Trp Val Thr Val Tyr Tyr Gly Val Lys
192          85          90          95
194 Ile Glu Glu Leu Arg Gln His Leu Met Thr Asn Asn Pro Pro Ile Pro
195          100          105          110
197 Val Val Thr Leu Trp Gln Arg Pro Leu Val Trp Ala Ser Arg Glu Leu
198          115          120          125
200 Glu Arg Phe Leu Leu Trp Lys Gly Glu Gly Ala Val Tyr Thr Ala Phe
201          130          135          140
203 Thr Ile Pro Ser Ile Ile Tyr Gln Glu Pro Phe Lys Asn Leu Lys Ser
204 145          150          155          160
206 Leu Tyr Asn Thr Val Ala Thr Leu Ala Ile Ile Arg Ile Leu Gln Gln
207          165          170          175
209 Leu Ala Ile Phe Gln Ser Ser Met Thr Lys Val Ile Tyr Gln Tyr Met
210          180          185          190
212 Asp Asp Leu Leu Val Gly Pro Thr Pro Val Asn Ile Thr Pro Gln Asp

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213          195          200          205
215 Leu Asn Thr Met Leu Tyr Leu Ala Trp Val Pro Ala His Lys Ala Leu
216          210          215          220
218 Val Glu Ile Cys Thr Glu Met Thr Leu Asn Ala Trp Val Lys Val Val
219 225          230          235          240
221 <210> SEQ ID NO: 5
222 <211> LENGTH: 239
223 <212> TYPE: PRT
224 <213> ORGANISM: Hepatitis C virus
226 <400> SEQUENCE: 5
228 Leu Leu Phe Asn Ile Leu Gly Gly Trp Val Lys Thr Ser Glu Arg Ser
229 1          5          10          15
231 Gln Pro Arg Phe Leu Leu Leu Ala Asp Ala Arg Val Leu Leu Phe Leu
232          20          25          30
234 Leu Leu Ala Asp Ala Arg Leu Gly Val Arg Ala Thr Arg Lys Gly Val
235          35          40          45
237 Ala Gly Ala Leu Val Ala Phe Lys Leu Pro Gly Cys Ser Phe Ser Ile
238          50          55          60
240 Phe Arg Met Tyr Val Gly Gly Val Glu His Arg Val Ala Gly Ala Leu
241 65          70          75          80
243 Val Ala Phe Lys Asp Leu Met Gly Tyr Ile Pro Leu Val Leu Ile Phe
244          85          90          95
246 Cys His Ser Lys Lys Lys Ile Leu Ala Gly Tyr Gly Ala Gly Val His
247          100          105          110
249 Met Trp Asn Phe Ile Ser Gly Ile Gln Leu Phe Thr Phe Ser Pro Arg
250          115          120          125
252 Arg Val Gly Ile Tyr Leu Leu Pro Asn Arg Phe Trp Ala Lys His Met
253          130          135          140
255 Trp Asn Phe Tyr Leu Val Thr Arg His Ala Asp Val Leu Ser Ala Phe
256 145          150          155          160
258 Ser Leu His Ser Tyr Trp Met Asn Arg Leu Ile Ala Phe Ala Tyr Leu
259          165          170          175
261 Leu Pro Arg Arg Gly Pro Arg Leu Tyr Leu Val Ala Tyr Gln Ala Thr
262          180          185          190
264 Val Arg Leu Ile Val Phe Pro Asp Leu Gly Val Thr Leu Gly Phe Gly
265          195          200          205
267 Ala Tyr Met Ser Lys Ile Pro Phe Tyr Gly Lys Ala Ile Val Leu Val
268          210          215          220
270 Gly Gly Val Leu Ala Ala Cys Thr Cys Gly Ser Ser Asp Leu Tyr
271 225          230          235
274 <210> SEQ ID NO: 6
275 <211> LENGTH: 9
276 <212> TYPE: PRT
277 <213> ORGANISM: epstein-barr virus (EBV)
279 <400> SEQUENCE: 6
281 Cys Leu Gly Gly Leu Leu Thr Met Val
282 1          5
284 <210> SEQ ID NO: 7
285 <211> LENGTH: 9

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Input Set : N:\KD\pto.kd.txt

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286 <212> TYPE: PRT
287 <213> ORGANISM: epstein-barr virus (EBV)
289 <400> SEQUENCE: 7
291 Gly Leu Cys Thr Leu Val Ala Met Leu
292 1 5
294 <210> SEQ ID NO: 8
295 <211> LENGTH: 10
296 <212> TYPE: PRT
297 <213> ORGANISM: epstein-barr virus (EBV)
299 <400> SEQUENCE: 8
301 Leu Leu Asp Phe Val Arg Phe Met Gly Val
302 1 5 10
304 <210> SEQ ID NO: 9
305 <211> LENGTH: 9
306 <212> TYPE: PRT
307 <213> ORGANISM: epstein-barr virus (EBV)
309 <400> SEQUENCE: 9
311 Tyr Leu Leu Glu Met Leu Trp Arg Leu
312 1 5
314 <210> SEQ ID NO: 10
315 <211> LENGTH: 9
316 <212> TYPE: PRT
317 <213> ORGANISM: epstein-barr virus (EBV)
319 <400> SEQUENCE: 10
321 Tyr Leu Gln Gln Asn Trp Trp Thr Leu
322 1 5
324 <210> SEQ ID NO: 11
325 <211> LENGTH: 9
326 <212> TYPE: PRT
327 <213> ORGANISM: epstein-barr virus (EBV)
329 <400> SEQUENCE: 11
331 Arg Leu Arg Ala Glu Ala Gln Val Lys
332 1 5
334 <210> SEQ ID NO: 12
335 <211> LENGTH: 11
336 <212> TYPE: PRT
337 <213> ORGANISM: epstein-barr virus (EBV)
339 <400> SEQUENCE: 12
341 Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile
342 1 5 10
344 <210> SEQ ID NO: 13
345 <211> LENGTH: 9
346 <212> TYPE: PRT
347 <213> ORGANISM: epstein-barr virus (EBV)
349 <400> SEQUENCE: 13
351 Pro Tyr Leu Phe Trp Leu Ala Ala Ile
352 1 5
354 <210> SEQ ID NO: 14
355 <211> LENGTH: 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/521,010

DATE: 05/23/2006

TIME: 14:16:30

Input Set : N:\KD\pto.kd.txt

Output Set: N:\CRF4\05232006\J521010.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date